

ABSTRACT OF THE DISCLOSURE

The water purification cartridge treats water with a halogen liberated from halogenated hydantoinyl resins and polymers, resulting in the safe, complete, and economical purification of non-potable water at low flow rates typically found in gravity feed filtration systems and at water pressures of less than 1 psig. The cartridge of the invention purifies non-potable water of bacteria, viruses, and some protozoans without the need for additional power sources or risk to the consumer for exposure to chemicals that have been identified to have harmful, long-term effects. The cartridge described herein enables a gravity fed water purification system by combining the cartridge with conventional filters, such as porous diatomaceous earthen ceramic water filters or activated carbon filters packed either with granular activated carbon or block.